

METHOD AND APPARATUS FOR COMBINATORIAL SCREENING OF POLYMER COMPOSITIONS

Abstract of Disclosure

A method and apparatus for detecting chemiluminescence from polymer samples at various temperatures are described. The method enables rapid parallel determination of the heat-stability, light-stability, and oxidative stability of polymer samples as a function of their composition. The method is particularly useful for determining the stability of polymer compositions forming combinatorial libraries.

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| Variable | Mean | SD | Min | Max |
|---|------|------|-----|-----|
| Age | 34.5 | 10.2 | 18 | 65 |
| Gender | 0.5 | 0.5 | 0 | 1 |
| Marital status | 0.6 | 0.5 | 0 | 1 |
| Education | 12.5 | 2.1 | 9 | 16 |
| Income | 15.2 | 8.5 | 5 | 35 |
| Health status | 0.7 | 0.4 | 0 | 1 |
| Employment | 0.8 | 0.4 | 0 | 1 |
| Family size | 3.2 | 1.5 | 1 | 6 |
| Religion | 0.5 | 0.5 | 0 | 1 |
| Political affiliation | 0.5 | 0.5 | 0 | 1 |
| Home ownership | 0.7 | 0.4 | 0 | 1 |
| Vehicle ownership | 0.6 | 0.5 | 0 | 1 |
| Travel frequency | 0.4 | 0.3 | 0 | 1 |
| Internet usage | 0.8 | 0.4 | 0 | 1 |
| Smartphone usage | 0.9 | 0.3 | 0 | 1 |
| Exercise frequency | 0.3 | 0.2 | 0 | 1 |
| Alcohol consumption | 0.2 | 0.1 | 0 | 1 |
| Smoking status | 0.1 | 0.1 | 0 | 1 |
| Stress level | 0.6 | 0.3 | 0 | 1 |
| Life satisfaction | 0.7 | 0.2 | 0 | 1 |
| Community involvement | 0.4 | 0.3 | 0 | 1 |
| Volunteering | 0.3 | 0.2 | 0 | 1 |
| Charitable donations | 0.2 | 0.1 | 0 | 1 |
| Political participation | 0.1 | 0.1 | 0 | 1 |
| Environmental awareness | 0.8 | 0.3 | 0 | 1 |
| Sustainable living | 0.6 | 0.4 | 0 | 1 |
| Local food consumption | 0.5 | 0.3 | 0 | 1 |
| Organic food purchase | 0.4 | 0.2 | 0 | 1 |
| Recycling participation | 0.7 | 0.3 | 0 | 1 |
| Water conservation | 0.8 | 0.2 | 0 | 1 |
| Energy efficiency | 0.6 | 0.3 | 0 | 1 |
| Green building certification | 0.5 | 0.3 | 0 | 1 |
| Renewable energy usage | 0.4 | 0.2 | 0 | 1 |
| Carbon footprint reduction | 0.3 | 0.1 | 0 | 1 |
| Climate change concern | 0.9 | 0.1 | 0 | 1 |
| Environmental policy support | 0.8 | 0.2 | 0 | 1 |
| Green investment | 0.2 | 0.1 | 0 | 1 |
| Ethical consumerism | 0.7 | 0.3 | 0 | 1 |
| Brand loyalty | 0.5 | 0.3 | 0 | 1 |
| Product quality perception | 0.6 | 0.2 | 0 | 1 |
| Customer satisfaction | 0.7 | 0.2 | 0 | 1 |
| Brand reputation | 0.8 | 0.1 | 0 | 1 |
| Corporate social responsibility | 0.9 | 0.1 | 0 | 1 |
| Employee satisfaction | 0.7 | 0.2 | 0 | 1 |
| Work-life balance | 0.6 | 0.2 | 0 | 1 |
| Job security | 0.5 | 0.3 | 0 | 1 |
| Health insurance | 0.9 | 0.1 | 0 | 1 |
| Pension plan | 0.8 | 0.2 | 0 | 1 |
| Retirement savings | 0.7 | 0.2 | 0 | 1 |
| Financial literacy | 0.6 | 0.2 | 0 | 1 |
| Investment knowledge | 0.5 | 0.2 | 0 | 1 |
| Financial planning | 0.4 | 0.1 | 0 | 1 |
| Debt management | 0.3 | 0.1 | 0 | 1 |
| Credit score | 720 | 50 | 600 | 850 |
| Banking history | 0.8 | 0.2 | 0 | 1 |
| Loan repayment | 0.9 | 0.1 | 0 | 1 |
| Insurance coverage | 0.7 | 0.2 | 0 | 1 |
| Medical history | 0.6 | 0.2 | 0 | 1 |
| Genetic testing | 0.5 | 0.3 | 0 | 1 |
| Healthcare access | 0.8 | 0.2 | 0 | 1 |
| Medical research participation | 0.4 | 0.2 | 0 | 1 |
| Pharmaceutical industry support | 0.3 | 0.1 | 0 | 1 |
| Healthcare reform support | 0.7 | 0.2 | 0 | 1 |
| Medical ethics | 0.6 | 0.2 | 0 | 1 |
| Healthcare equity | 0.5 | 0.2 | 0 | 1 |
| Medical innovation | 0.8 | 0.2 | 0 | 1 |
| Healthcare transparency | 0.7 | 0.2 | 0 | 1 |
| Medical privacy | 0.9 | 0.1 | 0 | 1 |
| Healthcare quality | 0.8 | 0.2 | 0 | 1 |
| Medical research funding | 0.6 | 0.2 | 0 | 1 |
| Healthcare reform implementation | 0.5 | 0.2 | 0 | 1 |
| Medical ethics education | 0.4 | 0.1 | 0 | 1 |
| Healthcare equity initiatives | 0.3 | 0.1 | 0 | 1 |
| Medical innovation research | 0.7 | 0.2 | 0 | 1 |
| Healthcare transparency reports | 0.6 | 0.2 | 0 | 1 |
| Medical privacy regulations | 0.9 | 0.1 | 0 | 1 |
| Healthcare quality improvement | 0.8 | 0.2 | 0 | 1 |
| Medical research funding allocation | 0.5 | 0.2 | 0 | 1 |
| Healthcare reform implementation timeline | 0.4 | 0.1 | 0 | 1 |
| Medical ethics education programs | 0.3 | 0.1 | 0 | 1 |
| Healthcare equity initiatives funding | 0.2 | 0.1 | 0 | 1 |
| Medical innovation research grants | 0.7 | 0.2 | 0 | 1 |
| Healthcare transparency reports frequency | 0.6 | 0.2 | 0 | 1 |
| Medical privacy regulations enforcement | 0.9 | 0.1 | 0 | 1 |
| Healthcare quality improvement measures | | | | |